Protocol for Agarose Gel Electrophoresis

1.Weigh 1g (0.5g) agarose powder with Electronic scale, and get 100ml (50ml) 0.5X TBE buffer and put them together into a flask and mix them to get 1% solution;
2.Melt the mixture in a microwave with a middle-high heat for about 2 min until the solution becomes clear;
3.put the flask under the flowing water to cool it to about 40-50°C(it' s okay when you don' t feel hard to hold it)
4.put 10ul EB solution into the mixture prepared above, and pour the whole solution into the gel casting tray with appreciate comb;
5.Let the gel cool until it is solid(it takes at least 30 min)
6.Pull out the comb carefully and avoid damaging the Gel;
7.Place the gel in the electrophoresis chamber;
8.Pipette DNA samples mixed with appreciate amount of loading buffer and dye (GeneFinder) into wells on the gel;
9.Run the gel at 160V for about half an hour;